

U.S. Department of Commerce, Patent and Trademark Office (PTO Form 1449 modified)				Docket No. AMAT/5163P1/DISP LAY/AHRDWR/RKK		Serial No. 10/321,289	
LIST OF PATENTS AND PUBLICATIONS CITED BY APPLICANT				Applicant Kim, et al.		Confirmation No.: 2911	
(Use several sheets if necessary)				Filing Date December 17, 2002		Group 3742	
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	A2	4,767,494	08/30/88	Kobayashi et al.	156	606	09/19/1986
	A3	4,806,321	02/21/89	Nishizawa et al.	422	245	07/21/1985
	A4	4,813,846	03/21/89	Helms	414	744.1	04/29/87
	A5	4,829,022	05/09/89	Kobayashi et al.	437	107	12/09/1986
	A6	4,838,983	06/13/89	Schumaker et al.	156	613	03/18/1988
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	A9	4,845,049	07/04/89	Sunakawa	437	81	03/28/1988
	A10	4,859,625	08/22/89	Nishizawa et al.	437	81	11/20/1987
	A11	4,859,627	08/22/89	Sunakawa	437	81	07/01/1988
	A12	4,861,417	08/29/89	Mochizuki et al.	156	610	03/24/1988
	A13	4,876,218	10/24/89	Pessa et al.	437	107	09/26/1988
	A14	4,917,556	04/17/90	Stark et al.	414	217	05/26/89
	A15	4,927,670	05/22/1990	Erbil	427	255.3	06/22/1988
	A16	4,931,132	06/05/90	Aspnes et al.	156	601	10/07/1988
	A17	4,951,601	08/28/90	Maydan, et al.	118	719	06/23/89
	A18	4,960,720	10/02/90	Shimbo	437	105	08/24/1987
	A19	4,975,252	12/04/90	Nishizawa et al.	422	245	05/26/1989
	A20	5,000,113	03/19/91	Wang et al.	118	723	12/19/86
	A21	5,013,683	05/07/91	Petroff et al.	437	110	01/23/1989
	A22	5,028,565	07/02/1991	Chang, et al.	437	192	08/25/1989
	A23	5,082,798	01/21/92	Arimoto	437	108	09/27/1990
	A24	5,085,885	02/04/92	Foley et al.	477	38	09/10/1990
	A25	5,091,320	02/25/92	Aspnes et al.	437	8	06/15/1990
	A26	5,130,269	07/14/92	Kitahara et al.	437	111	04/25/1989
	A27	5,166,092	11/24/92	Mochizuki et al.	437	105	10/30/1990
	A28	5,173,474	12/22/1992	Connell, et al.	505	1	03/11/1991
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.							

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	A30	5,205,077	04/27/93	Wittstock	51	165 R	08/28/91
	A31	5,234,561	08/10/93	Randhawa et al.	204	192.38	08/25/88
	A32	5,246,536	09/21/93	Nishizawa et al.	156	610	03/10/1989
	A33	5,250,148	10/05/93	Nishizawa et al.	156	611	11/12/1991
	A34	5,254,207	10/19/93	Nishizawa et al.	156	601	11/30/1992
	A35	5,256,244	10/26/93	Ackerman	156	613	02/10/1992
	A36	5,259,881	11/09/93	Edwards, et al.	118	719	05/17/91
	A37	5,270,247	12/14/93	Sakuma et al.	437	133	07/08/1992
	A38	5,278,435	01/11/94	Van Hove et al.	257	184	06/08/1992
	A39	5,286,296	02/15/94	Sato et al.	118	719	01/09/92
	A40	5,290,748	03/01/94	Knuuttila et al.	502	228	07/16/1992
	A41	5,296,403	03/22/94	Nishizawa et al.	437	133	10/23/1992
	A42	5,300,186	04/05/94	Kitahara et al.	156	613	04/07/1992
	A43	5,311,055	05/10/94	Goodman et al.	257	593	11/22/1991
	A44	5,316,615	05/31/94	Copel	117	95	03/09/1993
	A45	5,316,793	05/31/94	Wallace et al.	427	248.1	07/27/1992
	A46	5,330,610	07/19/94	Eres et al.	117	86	05/28/1993
	A47	5,336,324	08/09/94	Stall et al.	118	719	12/04/1991
	A48	5,338,389	08/16/94	Nishizawa et al.	117	89	04/21/1993
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	A51	5,438,952	08/08/1995	Otsuka	117	84	01/31/1994
	A52	5,439,876	08/08/95	Graf et al.	505	447	08/16/1993
	A53	5,443,033	08/22/95	Nishizawa et al.	117	86	03/11/1994
	A54	5,455,072	10/03/95	Bension et al.	427	255.7	11/18/1992
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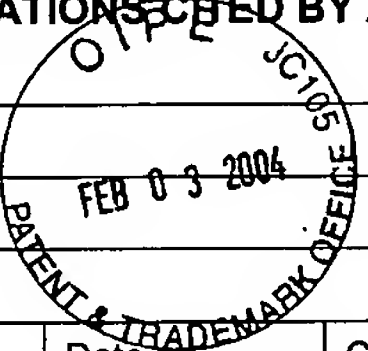
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	A56	5,469,806	11/28/95	Mochizuki et al.	117	97	08/20/1993	
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	A82	5,830,270	11/03/98	McKee et al.	117	106	08/05/1996
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	A91	5,882,413	03/16/99	Beaulieu et al.	118	719	07/11/97
	A92	5,904,565	05/18/1999	Nguyen, et al.	438	687	07/17/1997
	A93	5,923,056	07/13/99	Lee et al.	257	192	03/12/1998
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	A95	5,925,574	07/20/99	Aoki et al.	437	31	04/10/1992
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	A109	6,086,677	07/11/00	Umotoy et al.	118	715	06/16/98	
	A110	6,110,556	08/29/00	Bang, et al.	428	64.1	10/17/97	
	A111	6,113,977	09/05/00	Soininen et al.	427	64	09/11/1997	
	A112	6,117,244	09/12/00	Bang, et al.	118	715	03/24/98	
	A113	6,124,158	09/26/00	Dautartas et al.	438	216	06/08/1999	
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	A117	6,143,659	11/07/00	Leem	438	688	08/27/98	
	A118	6,144,060	11/07/00	Park et al.	257	310	07/31/98	
	A119	6,147,334	11/14/2000	Hannigan	219	544	01/29/1999	
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	A121	6,158,446	12/12/00	Mohindra et al.	134	25.4	09/04/98	
	A122	6,174,809	01/16/2001	Kang, et al.	438	682	12/15/1998	
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	A130	6,316,098	11/13/2001	Yitzchaik, et al.	428	339	03/23/1999	
✓	A131	2001/0031562	10/18/2001	Raaijmakers, et al.	438	770	02/22/2001	
✓	A132	2001/0034123	10/25/2001	Jeon, et al.	438	643	04/06/2001	
✓	A133	2001/0041250	11/15/01	Werkhoven et al.	428	212	03/06/01	
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OTHER ART			
*Examiner Initial		Including Author, Title, Date, Pertinent Pages, Etc.	
	C1	Hultman, et al., "Review of the thermal and mechanical stability of TiN-based thin films", <i>Zeitschrift Fur Metallkunde</i> , 90(10) (Oct. 1999), pp. 803-813.	
	C2	Klaus, et al., "Atomic Layer Deposition of SiO ₂ Using Catalyzed and Uncatalyzed Self-Limiting Surface Reactions", <i>Surface Review & Letters</i> , 6(3&4) (1999), pp. 435-448.	
	C3	Yamaguchi, et al., "Atomic-layer chemical-vapor-deposition of silicon dioxide films with extremely low hydrogen content", <i>Appl. Surf. Sci.</i> , Vol. 130-132 (1998), pp. 202-207.	
	C4	George, et al., "Surface Chemistry for Atomic Layer Growth", <i>J. Phys. Chem.</i> , Vol. 100 (1996), pp. 13121-131.	
	C5	George, et al., "Atomic layer controlled deposition of SiO ₂ and Al ₂ O ₃ using ABAB...binary reaction sequence chemistry", <i>Appl. Surf. Sci.</i> , Vol. 82/83 (1994), pp. 460-467.	
	C6	Wise, et al., "Diethyldiethoxysilane as a new precursor for SiO ₂ growth on silicon", <i>Mat. Res. Soc. Symp. Proc.</i> , Vol. 334 (1994), pp. 37-43.	
	C7	Niinisto, et al., "Synthesis of oxide thin films and overlayers by atomic layer epitaxy for advanced applications", <i>Mat. Sci. & Eng.</i> , Vol. B41 (1996), pp. 23-29.	
	C8	Ritala, et al., "Perfectly conformal TiN and Al ₂ O ₃ films deposited by atomic layer deposition", <i>Chemical Vapor Deposition</i> , Vol. 5(1) (January 1999), pp. 7-9.	
	C9	Klaus, et al., "Atomically controlled growth of tungsten and tungsten nitride using sequential surface reactions". <i>Appl. Surf. Sci.</i> , Vol 162-163 (2000), pp. 479-491.	
	C10	Min, et al., "Atomic layer deposition of TiN thin films by sequential introduction of Ti precursor and NH ₃ ", <i>Symp.: Advanced Interconnects and Contact Materials and Processes for Future Integrated Circuits</i> (Apr. 13-16, 1998), pp. 337-342.	
	C11	Klaus, et al., "Atomic Layer Deposition of Tungsten using Sequential Surface Chemistry with a Sacrificial Stripping Reaction", <i>Thin Solid Films</i> 360 (2000), Pages 145 – 153, (Accepted Nov. 16, 1999).	
	C12	Min, et al., "Metal-Organic Atomic-Layer Deposition of Titanium-Silicon-Nitride Films", <i>Applied Physics Letters</i> , American Inst. Of Physics, Vol 75(11) (Sept. 13, 1999).	
	C13	Martensson, et al., "Atomic Layer Epitaxy of Copper on Tantalum", <i>Chemical Vapor Deposition</i> , 3(1) (Feb. 1, 1997), pp. 45-50.	
	C14	Ritala, et al. "Atomic Layer Epitaxy Growth of TiN Thin Films", <i>J. Electrochem. Soc.</i> , 142(8) (Aug. 1995), pp. 2731-737.	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.			

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LIST OF PATENTS AND PUBLICATIONS CITED BY APPLICANT		Applicant Kim, et al.	Confirmation No.: 2911
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	C34	Abstracts of search results re atomic layer deposition, search dated January 24, 2002	
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